SIEMENS

Fire Safety

FireFinder Intelligent Fire Detection Systems: The new standard in speed, accuracy *and* simplicity.

FireFinder

Next to fire itself, a firefighter's biggest adversary is guesswork.

If there's a fire in your building, firefighters have just a few seconds to pinpoint its location and identify the whereabouts of building occupants and any hazardous materials. This critical time frame makes all the difference between safety and tragedy. To get the information they need, firefighters must read the Operator Interface Screen on your fire detection system panel. But the small screen on most systems can only display a limited amount of text, which often appears as vague abbreviations that can confuse and delay firefighters.

The FireFinder Intelligent Fire Detection System eliminates guesswork by using the world's largest standard fire system screen and unrivaled message capacity to deliver clear, accurate alarm message descriptions. FireFinder is the only system available that can communicate in hundreds of easy-to-read, large-text characters, hazmat icons, maps and NFPA fire safety symbols. All designed to be readily understood by users at all levels, based on the premise that a big picture really is worth a thousand words.

Faster response and easier installation and maintenance.

Along with unmatched message capability, the FireFinder system responds with remarkable speed, detecting and notifying occupants in under 3 seconds. It's also the easiest intelligent system to install and maintain. System control is tailored to the knowledge level of the operator. Large lighted buttons prompt less familiar users through typical system control sequences. While more knowledgeable users can use the password-protected touch screen to view and control the entire system and locate specific alarms using a simple sequence of lighted buttons and maps. For installers, the system offers innovative electrical and software features that can help slash installation time by up to 25%.*

Greater flexibility and compatibility.

For the greatest possible protection, the FireFinder system operates with a full range of proven, high-performance devices and systems, including:

- Network Command and Control (NCC) Wide Area Network
- Multiple FireFinder Networking System (compatible with MXL)
- Integrated digital emergency voice evacuation system
- FirePrint intelligent fire detectors
- Special hazards extinguishing systems
- Notification devices

Lower life-cycle cost.

The focus of the FireFinder system is unbeatable accuracy and ease-of-use for your building personnel, installers and firefighters. And all the features that make it so simple to handle are also designed to reduce your costs over the life of the system. From its flexible architecture, to its time-and-money–saving installation features, to its large screen with unrivaled safety and maintenance capabilities.

*Depending on size and type of building.

ALARM
SUPERVISORY
SECURITY
TROUBLE
Mfg. floor - Assembly area
ACME MANUFACTURING COMPANY
N
REST ROOMS
MAIN HALLWAY
STAIR WELL
SHIPPING
MANUFACTURING FLOOR
MAIN LOBBY
MAIN STREET
You are here
PARKING LOT
DETAILS
MAP
DEVICES
BACK

Groundbreaking features mean the greatest possible protection.

The FireFinder system is available in two models, the XLS and XLSV. The XLSV offers you the same advanced features of the XLS, plus an Integrated Digital Emergency Voice Evacuation System (see description bottom right).

The Big Picture.

At 6", the screen on the FireFinder detection system is the largest standard operator interface available in the industry. This feature makes system status much easier to read and understand, especially during a stressful fire emergency. By following the prompts to press a simple sequence of buttons, fire personnel can access all the information they need:

Large-font text messages – Typical screens are limited to 80+ characters, which forces the installer to enter alarm message descriptions in abbreviations that often only the installer can understand. When a real alarm occurs, these cryptic messages can delay firefighters from responding to the correct location. The FireFinder system can handle hundreds of text characters, which allows installers to enter very accurate descriptions. A full-detail screen is dedicated to each event to provide additional text messages and descriptions.

Maps – The large graphical display contains simple maps of a building's floor plan, indicating the location of the activated fire alarm device. Most importantly, it shows the location of responding fire personnel in relation to the fire, indicating "You are here."

Hazmat Icons – Indicate the presence of explosive gas, liquids, poison, fumes, etc., that firefighters might encounter, and the type of occupants typically in the area (children, disabled, bedridden, etc.). Information regarding building exit locations can be indicated to help fire officials evaluate the situation (accessibility, emergency exits, etc.).

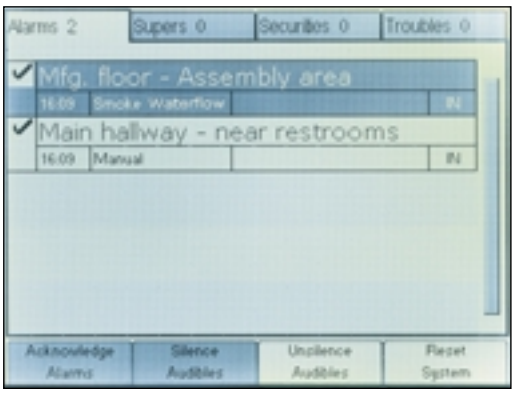
Standard NFPA 170 fire safety symbols – Provide firefighters with critical information about the type of fire service equipment available in the alarm area (standpipe connection points, automatic sprinkler connection and control points, area of refuge, hose connections points, etc.).

FireFinder XLS

FireFinder XLSV

Voice Evacuation – The FireFinder XLSV includes Integrated Digital Emergency Voice Evacuation, a high-quality system (200Hz - 12KHz+) with 8 digital audio channels. It is UL 864 listed for background music and convenience paging applications, a cost-saving alternative to installing additional speakers. The system is designed to meet pending NFPA and ISO intelligibility standards.

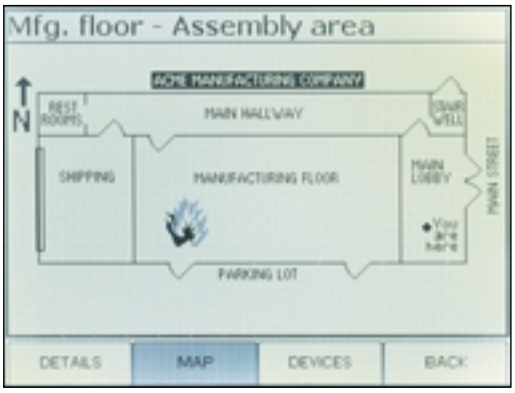
A simple sequence of screens tells the whole story.



Step 1, Alarm Event Screen: When an alarm is detected, this screen displays the type of alarm (Smoke, Manual, Heat, Waterflow, etc.), location (customized message) and time of event.

Mfg. floor - Assembly area
ALARM LOCATION:
Above wave soldering machine on factory floor. Near building exit doors to parking lot. From lobby, go down main hall to 1st door on left onto factory floor - assembly area straight ahead.
AREA FIRE EQUIP:
DEVICES IN ALARM: 2
ALARM TYPES:
Smoke Waterflow
AREA CONTAINS:
CONTACT: Bob Smith
(973) 555-1212
EXIT
DETAILS
MAP
DEVICES
BACK

Step 2, Event Details Screen: Press the lighted "More Info" button to view specifics on alarm location (200+ characters of text description), available fire equipment in the area (presented in the form of standard NFPA 170 fire safety symbols), hazards, and occupants typically in that area of the building.



Step 3, Event Map Screen: Press the "Map Button" to view a simple building floor plan that shows fire or building personnel their proximity to the alarm event.

A new record in detection and response speed.

When a fire is detected, the FireFinder system sends the message from the point of detection to the fire panel in a mere quarter of a second. Activation of alarms and other building control devices occurs in under 3 seconds. The system can accommodate more than 250 devices per card.

Simplified interfaces save time, increase control.

Easy operation and maintenance.

Your operations and maintenance personnel must interact with your fire detection system at an even greater level than firefighters. For this reason, we've designed the FireFinder system to represent your facility's layout the way building personnel see it. This helps them perform day-to-day system duties – including running reports, troubleshooting simple problems and making minor changes – with more flexibility and ease than ever. Several important features make this possible:

- Maintenance Mode – A single mode using a simple sequence of lighted buttons lets personnel view the entire system, including all modules and devices (each with a custom message), arm and disarm the system, run device sensitivity reports and print review screens.
- Alarm Location Display – No address numbers are required because the entire system structure can be viewed and navigated through on the large display by using real device and module locations – rather than needing to know the address numbers of devices.

Fast and easy installation

Built for speed in every way, the FireFinder system contains revolutionary SureWire technology that can help eliminate installation errors and reduce installation time by up to 25%.

This technology includes:

Device Programmer and Loop Tester Unit* (DPU) – FireFinder is the only intelligent system equipped with this powerful tool that will save many hours of installation time! The DPU allows installers to test and verify the correct connection of devices as they are installed instead of waiting until the end of installation to test at the fire panel. It instantly communicates with devices and confirms whether they're functioning properly, reporting individual device addresses, the type of each device, and a summary of total devices on the loop according to type (i.e.: # Manual Stations, # Smoke detectors, etc.). The DPU will also check detector loops for ground faults and shorts.

Polarity Insensitive Detector Loop Wiring*– Another big time-saver, polarity insensitive wiring allows fire detection devices to operate flawlessly even when detector and module wiring polarity are inverted on the wrong screw terminals. When wiring polarity doesn't need to be observed, wiring troubleshooting is greatly reduced.

Ground Fault Detection by Module – Ground faults are easily the most time-consuming wiring problem to locate in a detection system. But the FireFinder system greatly simplifies locating the problem by identifying the specific pair of wires that contain a ground fault.

Use of Any Existing Wire – The system can be connected to existing field device and notification circuit wiring, which saves time and money on retrofits.** To further reduce installation costs, there's no need for shielded wire on intelligent detector loops, notification appliance circuits or telephone circuits which may cause more ground faults.

Windows™ Configuration Program* – A simple, Windows-based configuration tool makes programming faster and easier for all levels of programmers, from system design engineer through installing technician. It also allows configuration programming to be created and changed in less time.

* Patents pending.

** Use of existing wire requires approval of local authority having jurisdiction.

Hand-held Device Programmer and Loop Tester helps reduce installation time.

Devices and software that enhance system performance.

Network Command and Control (NCC) Wide Area Network.

The NCC is a PC-Based Graphic Command Center that provides the customer with one central point for annunciation and control of networked FireFinder systems (or a combination of FireFinder and MXL systems). The NCC can also be expanded to include multiple command centers with the ability to direct control as required. Designed to be compatible with past, present and future Siemens fire detection systems, the NCC wide area application allows communication over long distances between remote buildings using fiber-optic cable, dedicated wiring or unlimited distances using dedicated phone lines. The wide area application also allows grouping of these networked systems into one display point for clear and focused annunciation and control.

Networking Multiple FireFinder systems.

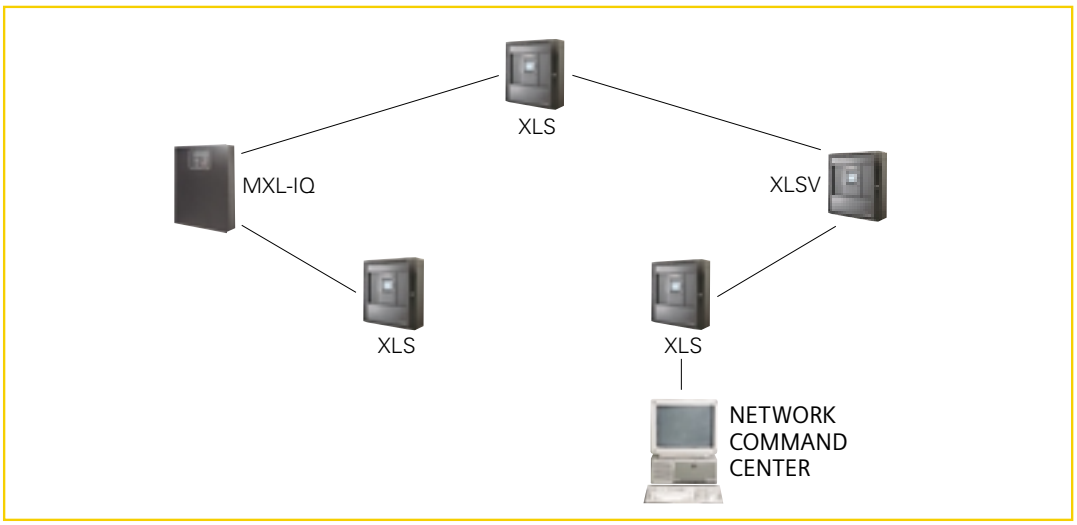
Ideal for large or high-risk facilities, this peer-to-peer network coordinates multiple FireFinder systems (or FireFinder and MXL systems) to act as a single system. Simultaneously, it ensures that each FireFinder control panel performs its own life safety functions independently, providing a high level of system survivability. This includes evacuation and notification of occupants, HVAC control and elevator capture, even if catastrophic failure occurs in another part of the building.

Among its many capabilities, the network can:

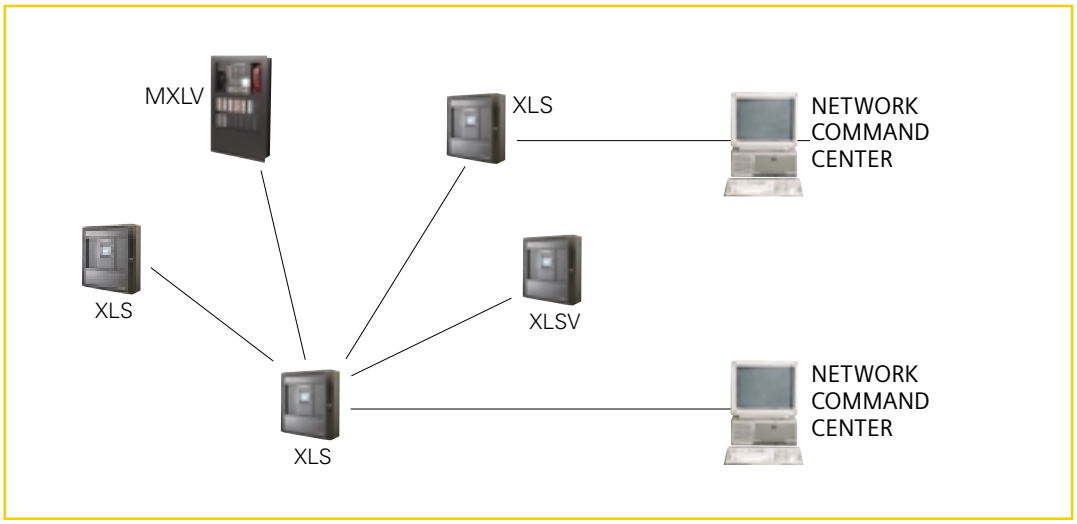
- Interface with other building management and control systems.
- Accommodate virtually any size facility by interconnecting up to 64 systems on a single network, providing a system capacity of more than 4,000 nodes and 300K intelligent devices.
- Minimize the risks and costs of faults by automatically compensating for one or many faults in the network communication path.
- Accommodate any building or campus architecture using one of the wiring configurations pictured at right.

A. Bus Configuration

B. Loop Configuration



C. Star Configuration



The FirePrint™ Intelligent Fire Detector.

Using a neural network which operates much like the human brain, FirePrint combines the world's largest bank of fire test data with the conditions in your building to decide if a fire situation exists. False alarms are eliminated because the detector knows and recognizes the difference between false alarm conditions and genuine fire. Through the FireFinder system, FirePrint can be set for the type of environment it's detecting. This allows the detector's decision-making process to adjust as needed, looking for the fire scenarios it expects to find in that environment.

FirePrint can be set for any of 11 different environments in which fires are most likely to occur:

- Computer room
- Dormitory
- Healthcare
- Hostile environment
- HVAC duct
- Lobby
- Office
- Parking garage
- Precious storage
- Utility room
- Warehouse

Maintenance feature: During system maintenance procedures, there's no need to turn off the entire system. FireFinder has the unique ability to disable *portions* of the FirePrint detector, which allows the device to continue to provide the highest level of protection – even during construction. For example, detectors are typically disarmed to prevent nuisance alarms during construction, leaving critical areas of a building unprotected. With the FireFinder system, the smoke-detecting portion may be disarmed, while the thermal portion may be left on to provide protection at all times.

Special Hazards Environments.

FM-200™ Clean Agent Fire Suppression Systems are the most effective firefighting clean agent systems for any environment in which protection of critical assets is vital. From clean rooms to telecommunications facilities, military installations, chemical storage facilities and critical health care facilities. FM-200 is capable of extinguishing fire within 10 seconds, *without* harming occupants or damaging precious equipment, processes or objects.

Notification Devices.

Developed to meet ISO 9001 quality standards and ADA requirements, this complete line of products is both energy efficient and easy to install. The selection includes speakers, chimes and our newest advancements:

Strobes – This new selectable strobe is the first of its kind with a selector switch on its face rather than on the rear of the product. The exclusive feature will allow installers to change the intensity level of each adapter device after mounting.

Horns – Choose from a variety of reliable, state-of-the-art horn products, including multi-tone electronic models with eight horn outputs, and horns that can be synchronized with a temporal output. The selection also includes explosion-proof, weatherproof and electromechanical horns.

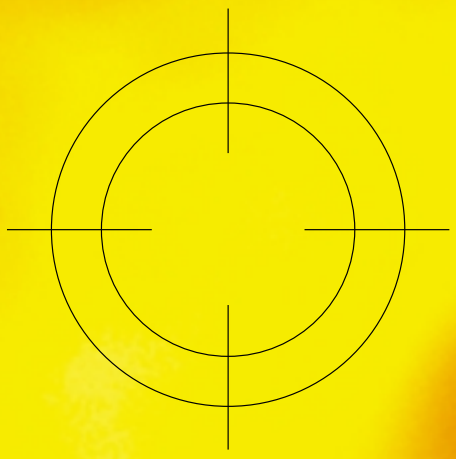
Speakers – With advanced digital technology, the FireFinder XLSV system can provide emergency voice evacuation, and optional convenience paging and background music through the same set of speakers. Choose from ClearSpeak™ state-of-the-art speakers or speaker/strobe units for emergency or non-emergency voice evacuation applications.

The fire safety tradition from Siemens: Expertise that helped build an industry.

When it comes to fire detection, we can honestly say we do it all. And in many cases, we've done it first, including introducing the world to the first ionization, analog and field programmable fire detectors.

A member of the Siemens Building Technologies Group, we're the world's largest manufacturer of fire detection systems. For 50-plus years, we've designed solutions for virtually every type and size of facility, protecting lives and business operation worldwide. Our market leadership is built on long-term customer relationships, and solidified by a commitment to R&D, consistent value and customer-driven solutions.

Learn how our big-screen system can bring you big savings and big peace-of-mind. Call Siemens Building Technologies, Fire Safety Division at 973-593-2600 or visit sbt.siemens.com/fis



Fire Safety

Siemens Building Technologies, Inc.
8 Fernwood Road, Florham Park, NJ 07932
Phone: 973.593.2600 • Fax: 973.593.6665

Siemens Building Technologies, LTD
2 Kenview Boulevard, Brampton, Ontario L6T 5E4 Canada
Phone: 905.799.9937 • Fax: 905.799.9858

sbt.siemens.com/fis

ISO 9001 Certified Manufacturer © 2001 Siemens 8/02 10K FIREFINDER B